

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 04-136467

(43)Date of publication of application : 11.05.1992

(51)Int.Cl.

F02M 25/07
F02M 25/07

(21)Application number : 02-261072

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(22)Date of filing : 28.09.1990

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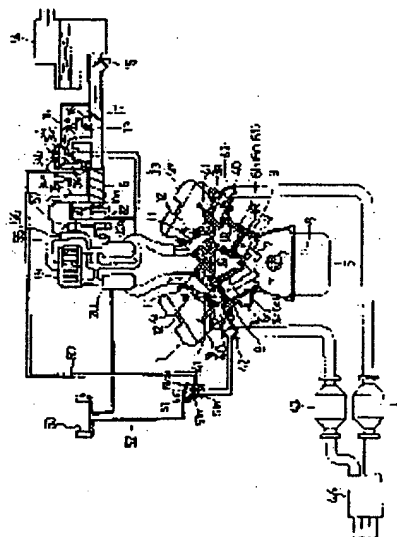
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(54) EXHAUST GAS RECIRCULATION DEVICE FOR ENGINE

(57)Abstract:

PURPOSE: To increase the supercharge pressure supplied from a supercharger, securing the superior engine durability by allowing a portion of the exhaust gas to recirculate to an intake passage on the upstream of the supercharger, delaying the combustion speed of the mixed gas by that portion, and restricting the combustion pressure of the mixed gas at most to an upper limit value.

CONSTITUTION: As for a V-type six-cylinder engine 1 having a pair of banks 1L and 1R which are opposed at left and right, a portion of the intake which flows in an intake passage 13 dividedly flows in an intake bypass passage 33 on the upstream side of a mechanical type supercharger 18, and after bypassing the mechanical type supercharger 18, the intake flows in each intake passage 13 on the downstream of an intercooler 19 and is supplied into each combustion chamber 10. In this case, one edge of an EGR passage 50 the other edge of which is opened to the exhaust passage 42 of one bank 1L is opened to the upstream side of the mechanical type supercharger 18 on the downstream of a fuel injection valve 31 in the intake passage 13. A portion of the exhaust gas which flows down in the exhaust passage 42 is supplied into a combustion chamber 10 through the mechanical type supercharger 18 from the intake passage 13.



LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

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